

Preliminary Amendment
U.S. National Stage of PCT/KR2004/003554
August 4, 2006
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Amendments to the Specification

Please amend paragraph 29 on page 8 of the specification as indicated below:

Glycyrrhizae radix is obtained by drying the root and root stem of Glycyrrhiza glabra, G. uralensis and others, which are perennial plants belonging to Fabaceae. It is sweet and ordinary in taste. In the spleen, stomach, heart and lungs, it shows the effects of strengthening the spleen and stomach, augmenting "Gi", clearing heat, removing toxicity, moistening the lungs, alleviating and stopping a pain, and regulating "Gi". It mainly contains glycyrrhizin (triterpen saponin), flavonoid compounds, such as liquiritin, and the like. The pharmacological effects of Glycyrrhizae radix include effects similar to those of adrenal cortex hormones, gastric ulceration inhibition, smooth muscle relaxation, liver function protection, anti-inflammation, anti-allergy, and anti-virus effects (Ho-Chul, Kim, Chinese medicinal pharmacology, JiipMoonDang, 92-94, 434-436 2001).

Please amend page 19, Table 1 of the specification as indicated below:

(Table 1)

	Inhibition (%) of production of advanced glycation endproducts		IC ₅₀ (ug/ml)
	Concentration (ug/ml)	Inhibition (%)	
Herbal extract mixture (cultured for 30 days)	5	22.245 ± 0.698 23.245 ± 0.698	18.12
	10	44.998 ± 1.396	
	25	63.548 ± 2.234	
	50	93.238 ± 5.187 93.283 ± 5.187	
Euphorbiae radix extract (cultured for 90 days)	25	34.680 ± 2.685	32.07
	50	56.456 ± 2.422	
	100	64.260 ± 0.871	
	200	93.376 ± 0.921	
	250	96.853 ± 0.982	

Please amend page 23, Table 2 of the specification as indicated below:

(Table 2)

	Early stage (g)	End stage (g)	Increase in body weight (g)
NC+CMC	209.26 ± 28.94	462.09 ± 32.91	252.83
DC+CMC	154.33 ± 27.26	220.50 ± 64.23 220.50 ± 64.28	66.17
DC+HMP	153.50 ± 45.06	251.71 ± 40.01	98.21
DC+S11	154.03 ± 45.56 154.03 ± 45.46	283.24 ± 42.60	129.21

Please amend page 24, Table 3 of the specification as indicated below:

(Table 3)

		Heart	Liver	Spleen	Lungs	Kidneys	Pancreas
NC + CMC	Absolute Weight (g)	1.64 ± 0.07	10.60 ± 0.72	0.79 ± 0.10	1.84 ± 0.23	2.65 ± 0.18	1.13 ± 0.21
	Relative weight (%)	0.25 ± 0.02	2.30 ± 0.12	0.17 ± 0.02	0.40 ± 0.04	0.58 ± 0.04	0.25 ± 0.05
DC + CMC	Absolute weight (g)	0.84 ± 0.18***	10.30 ± 1.99	0.46 ± 0.15***	1.44 ± 0.24**	2.92 ± 0.04 2.92 ± 0.45	0.79 ± 0.24**
	Relative weight (%)	0.37 ± 0.06***	4.62 ± 0.71***	0.20 ± 0.03*	0.65 ± 0.14***	1.35 ± 0.37***	0.35 ± 0.09**
DC + HMP	Absolute Weight (g)	0.88 ± 0.14**	10.71 ± 1.21	0.48 ± 0.10***	1.58 ± 0.21*	2.95 ± 0.48	0.93 ± 0.14
	Relative weight (%)	0.35 ± 0.03***	4.31 ± 0.48***	0.19 ± 0.22 0.19 ± 0.02	0.64 ± 0.08***	1.18 ± 0.10***	0.38 ± 0.07***
DC + H11 DC+S11	Absolute weight (g)	0.95 ± 0.11	11.63 ± 1.08	0.54 ± 0.09	1.55 ± 0.13	3.18 ± 0.30	0.86 ± 0.11
	Relative weight (%)	0.34 ± 0.03***	4.15 ± 0.40***	0.19 ± 0.02	0.55 ± 0.06***	1.14 ± 0.11***	0.31 ± 0.05*

Please amend page 27 of the specification as indicated below:

As can be seen in Table 4, the blood glucose levels were 408.79 ± 63.10 mg/dl for the diabetes-induced group, and 271.22 ± 72.28 mg/dl for the inventive herbal extract mixture-administered group, indicating that the inventive herbal extract mixture is excellent in the blood glucose-lowering effect as compared to the diabetes-induced group ($p < 0.01$). The group administered with the positive control Epalrestat showed a blood glucose level of ~~197.94~~

~~± 7.666 mg/dl. 197 197.94~~ 197.94

Also, the creatinine level was remarkably increased from 1.54 ± 0.08 mg/dl to ~~1.69 ± 0.24~~ 1.75 ± 0.17, mg/dl for the diabetes-induced group, and lowered to ~~1.51 ± 0.26~~ 1.57 ± 0.28 mg/dl for the inventive herbal extract mixture-administered group. Although the creatinine level is also used as an index of the kidney function, it is not a sensitive measure. Accordingly, even when glomerular filtration rate is reduced by more than 50%, the creatinine level remains in the normal range. In view of this characteristic, a creatinine level of ~~1.51 ± 0.26~~ 1.57 ± 0.28 mg/dl for the inventive herbal extract mixture-administered group indicates a significant improvement in the kidney function. As shown in Table3 above, the administration of the inventive herbal extract mixture resulted in a reduction in the kidney hypotrophy as compared to the diabetes-induced group, indicating an improvement in the kidney function.